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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812,253	03/19/2001	Brad D. Pedersen	1550.37US01	7816

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EXAMINER

DURAN, ARTHUR D

ART UNIT	PAPER NUMBER
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3622

DATE MAILED: 07/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/812,253

Applicant(s)

PEDERSEN, BRAD D.

Examiner

Arthur Duran

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MW

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 March 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. Claims 1-8 have been examined.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-4, 8 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims are rejected under 35 U.S.C. 101 because these claims have no connection to the technological arts. The method claims do not specify how the claims utilize any technological arts. For example, no network or server is specified. To overcome this rejection, the Examiner recommends that the Applicant amend the claim to specify or to better clarify that the method is utilizing a medium or apparatus, etc within the technological arts. Appropriate correction is required.

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave Congress the power to "[p]romote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries". In carrying out this power, Congress authorized under 35 U.S.C. §101 a grant of a patent to "[w]hoever invents or discovers any new and useful process, machine, manufacture, or composition or matter, or any new and useful improvement thereof." Therefore, a fundamental premise is that a patent is a statutorily created vehicle for Congress to confer an exclusive right to the inventors for "inventions" that promote the progress of "science and the useful arts". The

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phrase "technological arts" has been created and used by the courts to offer another view of the term "useful arts". See *In re Musgrave*, 167 USPQ (BNA) 280 (CCPA 1970). Hence, the first test of whether an invention is eligible for a patent is to determine if the invention is within the "technological arts".

Further, despite the express language of §101, several judicially created exceptions have been established to exclude certain subject matter as being patentable subject matter covered by §101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See *Diamond v. Diehr*, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See *State Street Bank & Trust Co. v. Signature Financial Group, Inc.* 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences (BPAI). See *In re Toma*, 197 USPQ (BNA) 852 (CCPA 1978). In *Toma*, the court held that the recited mathematical algorithm did not render the claim as a whole non-statutory using the Freeman-Walter-Abele test as applied to *Gottschalk v. Benson*, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. *In re Toma* at 857.

In *Toma*, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in *State Street Bank & Trust Co. v. Signature Financial Group, Inc.* never addressed this prong of the test. In *State Street Bank & Trust Co.*, the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little, if any, application to determining the presence of statutory subject matter but rather, statutory subject matter should be based on whether the operation produces a "useful, concrete and tangible result". See *State Street Bank & Trust Co.* at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under §101, but rather under §§102, 103 and 112." See *State Street Bank & Trust Co.* at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, *State Street* abolished the Freeman-Walter-Abele test used in *Toma*. However, *State Street* never addressed the second part of the analysis, i.e., the "technological arts" test established in *Toma* because the invention in *State Street* (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the *Toma* test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in

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affirming a §101 rejection finding the claimed invention to be non-statutory. See *Ex parte Bowman*, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

In the current application, no technological art (i.e., computer, network, server) is being utilized by claims 1-4, 8. At least one step of the body of the claims must explicitly utilize the technological arts. In this case, the advertisement can be a paper advertisement and the database can be a paper rolodex, etc. Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. Claim 2 recites the limitation “wherein the step of obtaining the information content”. There is insufficient antecedent basis for this limitation in the claim. Claim 2 is dependent upon claim 1. Claim 1 states “obtaining an advertisement”. No “information content” is stated in claim 1. Examiner will continue examination and assume that Applicant intended to state advertisement instead of information content. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Gerace (5,848,396).

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Claim 1: Gerace discloses a computer-implemented method of customizing the context of advertisements for communication to users on the Internet comprising:

developing a profile for a given user, the profile including at least archetype identification information for the given user (col 2, lines 15-35; col 20, lines 10-18; Fig. 3b; col 12, lines 25-28; col 19, lines 2-6);

obtaining an advertisement to be displayed for the given user from an advertisement database (Fig. 1; Fig. 2; col 5, lines 22-25);

altering a context of the advertisement based on the archetype identification information in the profile of the given user (col 20, lines 10-18; col 5, lines 19-25); and

communicating the altered advertisement to the given user (Fig. 1; Fig. 2; col 5, lines 15-25).

Claim 2: Gerace discloses the method of claim 1 and further discloses that the profile includes preference information for the given user and wherein the step of obtaining the information content is accomplished based at least in part upon the preference information (col 4, lines 30-36; col 6, lines 17-40; col 11, lines 24-56).

Claim 3: Gerace discloses the method of claim 2 and further discloses that the archetype identification information in the profile is developed based on an analysis of a context of interactions of the given user with a website on which the advertisement is to be displayed (col 5, lines 25-40; col 2, lines 15-23; col 6, lines 17-40; col 11, lines 24-56).

Claim 4: Gerace discloses the method of claim 3 and further discloses that the context of interactions of the given user includes timing of responses, patterns of access and response parametrics about how the given user has interacted with the website that is separate from

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information the given user has supplied to or requested from the website (col 6, line 58- col 7, line 23).

Claim 5: Gerace discloses the method of claim 1 and further discloses that the method is performed by a first server on the Internet and the advertisement database is maintained on a second host on the Internet and wherein the step of obtaining the advertisement is accomplished by requesting the advertisement from the second server (col 3, lines 37-67; Fig. 2; Fig. 3a).

Claim 6: Gerace discloses the method of claim 5 and further discloses that the archetype identification information in the profile is developed based on an analysis of a context of interactions of the given user with the first server (Fig. 1, item 27, program 31; col 4, lines 1-36; Fig. 2).

Claim 7: Gerace discloses the method of claim 6 and further discloses that the context of interactions of the given user includes timing of responses, patterns of access and response parametrics about how the given user has interacted with the first server that is separate from information the given user has supplied to or requested from the first server (Fig. 1, item 27, program 31; col 4, lines 1-36; Fig. 2; col 6, line 58- col 7, line 23).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gerace (5,848,396).

Claim 8: Gerace discloses the method of claim 1. Gerace further discloses that the context of the advertisement that is altered is selected from the set consisting of color, texture, font, background, pacing or any combination thereof (col 3, lines 4-10; col 2, lines 13-23; col 1, lines 30-35; col 8, lines 62-65; col 12, lines 48-54; col 36, lines 50-54; col 25, lines 15-18; col 7, lines 15-24; col 12, lines 33-42).

Gerace further discloses optimizing the context to attain optimal response (col 2, lines 47-53).

Gerace does not explicitly disclose controlling voice.

However, Gerace discloses controlling audio (col 3, lines 7-10), broadcasting radio (col 36, lines 49-54), and celebrity broadcasters (col 25, lines 15-17).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to add voice control to the audio control. One would have been motivated to do this in order to provide audio broadcasts in a voice that receives a favorable from a user.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arthur Duran whose telephone number is (703)305-4687. The examiner can normally be reached on Mon- Fri, 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Stamber can be reached on (703)305-8469. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Arthur Duran
Patent Examiner
6/29/04